

ABSTRACT

The present invention relates to an acid gas scrubbing apparatus and method in which a gas, to be scrubbed, containing carbon dioxide is brought into contact with a gas scrubbing liquid containing alkaline agent and cooled, and acid gases in the gas are removed. The present invention comprises a gas scrubber (A) for removing acid gases in a gas, to be scrubbed, containing carbon dioxide by bringing the gas to be scrubbed into contact with a gas scrubbing liquid containing alkaline agent, a scrubbing liquid regenerator (B) for regenerating and cooling the gas scrubbing liquid (40) by bringing the gas scrubbing liquid into contact with a regenerating gas (35b) having components different from the gas scrubbing liquid and the gas (30) to be scrubbed, and circulating means provided between the gas scrubber (A) and the scrubbing liquid regenerator (B) for circulating the scrubbing liquid.